

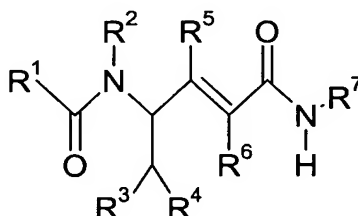
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-~~10~~⁹ (Canceled).

Claim ~~11~~¹⁰. (New) A method of treating a functional motility disorder of the viscera in a subject in need of such treatment, which comprises administering to said subject an effective amount of a compound of formula I



in free form or in the form of a pharmaceutically acceptable salt, wherein

R¹ is phenyl that is unsubstituted or is substituted by 1, 2 or 3 substituents selected from the group halogen, C₁-C₇-alkyl, trifluoromethyl, hydroxy and C₁-C₇-alkoxy;

R² is hydrogen or C₁-C₇-alkyl;

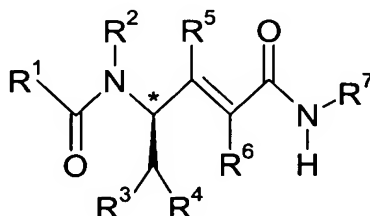
R³ is hydrogen, C₁-C₇-alkyl or phenyl that is unsubstituted or is substituted by 1, 2 or 3 substituents selected from the group halogen, C₁-C₇-alkyl, trifluoromethyl, hydroxy and C₁-C₇-alkoxy;

R⁴ is phenyl that is unsubstituted or is substituted by 1, 2 or 3 substituents selected from the group halogen, C₁-C₇-alkyl, trifluoromethyl, hydroxy and C₁-C₇-alkoxy; or is naphthyl, 1H-indol-3-yl or 1-C₁-C₇-alkyl-indol-3-yl;

R⁵ and R⁶ are each independently of the other hydrogen or C₁-C₇-alkyl, at least one of R⁵ and R⁶ being hydrogen; and

R⁷ is C₃-C₈-cycloalkyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

Claim ~~12~~¹¹. (New) A method according to claim 1, in which the compound of formula I is of formula IA



where * denotes the R configuration and R¹, R², R³, R⁴, R⁵, R⁶ and R⁷ are as defined in claim 1.

¹²
Claim ~~13~~. (New) A method according to claim 1, in which

R¹ is phenyl, 3,5-bis(trifluoromethyl)-phenyl or 3,4,5-trimethoxyphenyl;

R² is hydrogen or C₁-C₇-alkyl;

R³ is hydrogen or phenyl;

R⁴ is phenyl, halo-phenyl, dihalo-phenyl, trihalo-phenyl, 2-naphthyl, 1H-indol-3-yl or 1-C₁-C₇-alkyl-indol-3-yl;

R⁵ and R⁶ are each independently of the other hydrogen or C₁-C₇-alkyl, at least one of R⁵ and R⁶ being hydrogen; and

R⁷ is C₅-C₇-cycloalkyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

¹³
Claim ~~14~~. (New) A method according to claim 2, in which

R¹ is phenyl, 3,5-bis(trifluoromethyl)-phenyl or 3,4,5-trimethoxyphenyl;

R² is hydrogen or C₁-C₇-alkyl;

R³ is hydrogen or phenyl;

R⁴ is phenyl, halo-phenyl, dihalo-phenyl, trihalo-phenyl, 2-naphthyl, 1H-indol-3-yl or 1-C₁-C₇-alkyl-indol-3-yl;

R⁵ and R⁶ are each independently of the other hydrogen or C₁-C₇-alkyl, at least one of R⁵ and R⁶ being hydrogen; and

R⁷ is C₅-C₇-cycloalkyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

¹⁴
Claim ~~15~~. (New) A method according to claim 1, in which

R¹ is 3,5-bis(trifluoromethyl)-phenyl;

R² is hydrogen, methyl or ethyl;

R³ is hydrogen or phenyl;

R⁴ is phenyl, 4-chlorophenyl, 4-fluorophenyl, 3,4-dichloro-phenyl, 3,4-difluoro-phenyl, 3-fluoro-4-chloro-phenyl, 3,4,5-trifluoro-phenyl, 2-naphthyl, 1H-indol-3-yl or 1-methyl-indol-3-yl;

R⁵ and R⁶ are each independently of the other hydrogen or methyl, at least one of R⁵ and R⁶ being hydrogen; and

R⁷ is cyclohexyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

¹⁵
Claim ~~16~~. (New) A method according to claim 2, in which

R¹ is 3,5-bis(trifluoromethyl)-phenyl;

R² is hydrogen, methyl or ethyl;

R³ is hydrogen or phenyl;

R⁴ is phenyl, 4-chlorophenyl, 4-fluorophenyl, 3,4-dichloro-phenyl, 3,4-difluoro-phenyl, 3-fluoro-4-chloro-phenyl, 3,4,5-trifluoro-phenyl, 2-naphthyl, 1H-indol-3-yl or 1-methyl-indol-3-yl;

R⁵ and R⁶ are each independently of the other hydrogen or methyl, at least one of R⁵ and R⁶ being hydrogen; and

R⁷ is cyclohexyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

Claim ¹⁶~~17~~. (New) A method according to claim 1, in which

R¹ is 3,5-bistrifluoromethyl-phenyl;

R² is hydrogen or methyl;

R³ is hydrogen or phenyl;

R⁴ is phenyl, 4-chlorophenyl, 3,4-dichloro-phenyl, 2-naphthyl, 1H-indol-3-yl or 1-methyl-indol-3-yl;

R⁵ and R⁶ are hydrogen; and

R⁷ is cyclohexyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

Claim ¹⁷~~18~~. (New) A method according to claim 2, in which

R¹ is 3,5-bistrifluoromethyl-phenyl;

R² is hydrogen or methyl;

R³ is hydrogen or phenyl;

R⁴ is phenyl, 4-chlorophenyl, 3,4-dichloro-phenyl, 2-naphthyl, 1H-indol-3-yl or 1-methyl-indol-3-yl;

R⁵ and R⁶ are hydrogen; and

R⁷ is cyclohexyl, D-azacycloheptan-2-on-3-yl or L-azacycloheptan-2-on-3-yl.

Claim ¹⁸~~19~~. (New) A method according to claim 1, in which the compound of formula I is selected from the group consisting of:

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-pent-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-pent-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-2-methyl-pent-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-2-methyl-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-2-methyl-pent-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-(N'-methyl-N'-benzoyl-amino)-5-(1-methyl-indol-3-yl)-2-methyl-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(naphth-2-yl)-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-(N'-methyl-N'-benzoyl)-amino-5-(naphth-2-yl)-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(naphth-2-yl)-2-methyl-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,4,5-trimethoxy-benzoyl)-amino]-5-(naphth-2-yl)-2-methyl-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(naphth-2-yl)-2-methyl-pent-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(naphth-2-yl)-2-methyl-pent-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(1-methyl-indol-3-yl)-pent-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-chlorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-chlorobenzyl)-but-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-chlorobenzyl)-but-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3,4-dichlorobenzyl)-but-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3,4-difluorobenzyl)-but-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(4-chlorophenyl)-2-methyl-pent-2-enoic acid N-cyclohexylamide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(4-chlorophenyl)-2-methyl-pent-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-chlorobenzyl)-2-methyl-but-2-enoic acid [(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-ethyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(4-chlorophenyl)-pent-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-5-(4-chlorophenyl)-3-methyl-pent-2-enoic acid N-cyclohexyl-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-chlorobenzyl)-3-methyl-but-2-enoic acid [(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-chlorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-4-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3,4-dichlorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)- and (4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3-fluoro-4-chlorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)- and (4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3,4-difluorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)- and (4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3,4-dibromobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)- and (4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(3,4,5-trifluorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)- and (4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethyl-benzoyl)-amino]-4-(4-fluorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

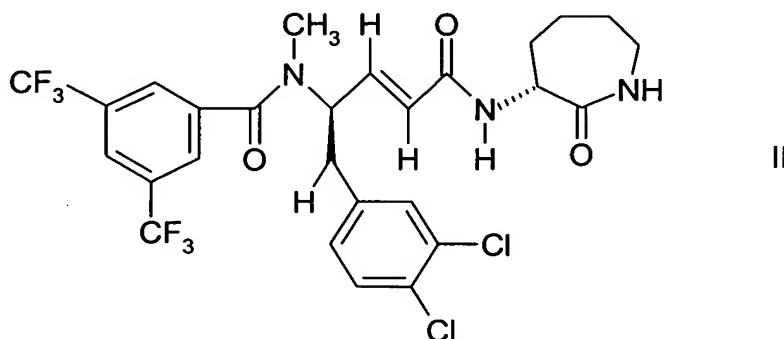
(4R)- and (4S)-[N'-(3,5-bistrifluoromethyl-benzoyl)-N'-methyl-amino]-5,5-diphenyl-pent-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide,

(4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethylbenzoyl)amino]-4-(3,4-dichlorobenzyl)-but-2-enoic acid N-[(R)-epsilon-caprolactam-3-yl]-amide,

(4R)-4-[N'-methyl-N'-(3,5-bistrifluoromethylbenzoyl)amino]-4-(3,4-dichlorobenzyl)-but-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide, and

(4S)-4-[N'-methyl-N'-(3,5-bistrifluoromethylbenzoyl)amino]-4-(3,4-dichlorobenzyl)-but-2-enoic acid N-[(S)-epsilon-caprolactam-3-yl]-amide.

Claim ¹⁹~~20~~. (New) A method according to claim 1, in which the compound of formula I is a compound of formula II



Claim ²⁰~~21~~. (New) A method according to claim 1, in which the functional motility disorder is associated with visceral hypersensitivity or altered motor responses.

Claim ²¹~~22~~. (New) A method according to claim 2, in which the functional motility disorder is a functional bowel disorder or a functional gastrointestinal disorder.

Claim ²²~~23~~. (New) A method according to claim 1, in which the functional motility disorder is irritable bowel syndrome or functional dyspepsia.

Claim ²³~~24~~. (New) A method according to claim 2, in which the functional motility disorder is irritable bowel syndrome or functional dyspepsia.

Claim ²⁴~~25~~. (New) A method according to claim 10, in which the functional motility disorder is irritable bowel syndrome or functional dyspepsia.

Claim ²⁵~~26~~. (New) A method according to claim 1, in which the functional motility disorder is diarrhoea-predominant irritable bowel syndrome.

Claim ²⁶~~27~~. (New) A method according to claim 10, in which the functional motility disorder is diarrhoea-predominant irritable bowel syndrome.

Claim ²⁷~~28~~. (New) A method according to claim 1, wherein the effective amount of the compound of formula I is from 1 mg to 1000 mg.

Claim ²⁸~~29~~. (New) A method according to claim 1, wherein the effective amount of the compound of formula I is from 5 mg to 200 mg.

Claim ²⁹~~30~~. (New) A method according to claim 10, wherein the effective amount of the compound of formula IA is from 1 mg to 1000 mg.